

**Abstract**

The invention includes a system and a method for testing a communication network. The inventive method transmits a first signal from a first point to a second point of the communication network, where the first and the second points are remotely located. The inventive method further includes recording a first time value of the transmitting of the first signal using a first clock, receiving a second signal at the second point of the communication network, and recording a second time value of the receiving using a second clock. The first clock and the second clock operate from a substantially similar reference. The method may further include comparing the first signal and the second signal as a function of the first and second time values. Also, the method may determine at least one performance characteristic of the communication network based on the comparison.